

QUADRATIC EQUATIONS – EXERCISES

Solve each of the following equations by the method of your choice and check your solutions.

1. $x^2 - 2x + 1 = 0$

2. $x^2 + 9x + 20 = 0$

3. $3x^2 - 5x - 12 = 0$

4. $6x^2 + 9x - 6 = 0$

5. $x^2 + 3x - 28 = 0$

6. $3x^2 - 2x = 2x + 7$

7. $4x^2 - 12x = 16$

8. $x^2 + 3x = 0$

9. $3 + \frac{1}{x} = \frac{10}{x^2}$

10. $3y^2 - y - 4 = 0$

11. $y^2 + 2y + 1 = 0$

12. $x^2 - 2x - 8 = 0$

13. $x^2 + 4 = 0$

14. $x^2 + x = -1$

15. $9y^2 + 6y - 8 = 0$

16. $y^2 - 25 = 0$

17. $6y^2 - 13y + 6 = 0$

18. $x - \frac{4}{3x} = \frac{-1}{3}$

19. $x - \frac{4}{x} = \frac{21}{5}$

20. $3 + \frac{5}{2x} = \frac{1}{x^2}$

21. $4 - \frac{1}{x} = \frac{3}{x^2}$

22. $8x = x^2$

23. $(x - 5)(x + 8) = -20$

24. $(x + 6)(x - 3) = 10$

25. $\frac{2}{x+5} - \frac{x}{x-5} = 1$